

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2107	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 2107	A	4.15						
Mossdale Island								
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.02		0.02	0.48%	0.01			
Trim / Thin Trees	0.01		0.01	0.24%				
Encroachments					0.01			
Slope Stability	0.02		0.02	0.48%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.12	0.01		
<i>LMA Totals:</i>	0.05	0.00	0.05	1.20%	0.14	0.01	0.00	0.00
Unit No. 01 San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
RD2107	A	2.33						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.43%	0.01			
Trim / Thin Trees	0.01		0.01	0.43%				
Encroachments					0.01			
Slope Stability	0.01		0.01	0.43%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.10			
<i>Unit Totals:</i>	0.03	0.00	0.03	1.29%	0.12	0.00	0.00	0.00
Unit No. 02 Paradise Cut RB	Overall Unit Rating	Total Unit Miles						
RD2107	A	1.82						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.55%				
Slope Stability	0.01		0.01	0.55%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02	0.01		
<i>Unit Totals:</i>	0.02	0.00	0.02	1.10%	0.02	0.01	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Reclamation District No. 2107 Mossdale Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 2107 Mossdale Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	2.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/06/2015 - 05/06/2015		10/15/2015 - 10/15/2015	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Robert Brown RD2107		Robert Brown RD2107	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD2107_01_s _ 2013_5				
Action/Comments					
Inspector Comments: The LMA has flood fight training and an emergency response plan.					

No Photos

LM Start		Rating **	A	Issue No.	7		
LM End		Issue Type +	Ma	Location *	CR		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Emergency Supplies & Equipment				°		°
					°		°
DWR ID	DWR_RD2107_01_s _ 2013_7						
Action/Comments							
Inspector Comments: Flood fighting supplies are available on-site.							

Photo 1 of 1 : FA_2015_RD2107_329_7_20151026_00015.jpg



View of the flood fight emergency supplies.

LM Start		Rating **	A	Issue No.	8	
LM End		Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Operations & Maintenance Manuals				o	
					o	
DWR ID	DWR_RD2107_01_s _ 2013_8					
Action/Comments						
Inspector Comments: The O&M Manual is available at the LMA's office.						

Photo 1 of 1 : FA_2015_RD2107_329_8_20151026_00016.jpg



View of the O&M Manual.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.03	Rating **	N	Issue No.	1
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.786993 °	37.786993 °
				-121.308694 °	-121.308694 °
DWR ID	DWR_RD2107_01_s _ 2012_1				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA_2015_RD2107_329_1_20150910_00001.jpg



Photo of waterside slope. Stumps present from prior tree removal for access and visibility.

LM Start	0.23	Rating **	M	Issue No.	58
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15175 DS_ID:23108 EP_NO: N/A FS_HLM: 0.232 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified. Erosion exposed pipes on LS. FIELD_STRUCT_DESC: 8-inch steel conduit 1-foot below the road surface within roadway fill over levee crown. Visible on Upstream side of bridge. FS Date: 05/22/2013					

Photo 1 of 1 : UCIP_FA_2015_0880.jpg



Pipes visible on LS next to roadway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.23	Rating **	M	Issue No.	59
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15174					
DS_ID:23110					
EP_NO: N/A					
FS_HLM: 0.232					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No permit identified for this crossing.					
FIELD_STRUCT_DESC: 1.5-inch PVC conduit 1-foot below the road surface within roadway fill over levee crown.					
FS Date: 05/22/2013					

Photo 1 of 2 : UCIP_FA_2015_0878.jpg



Enter photo 1 description or comment here.

LM Start	0.23	Rating **	M	Issue No.	59 (cont)
LM End	0.23	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2015_0879.jpg



Pipes visible on LS next to roadway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.23	Rating **	M	Issue No.	60
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15173					
DS_ID:23109					
EP_NO: N/A					
FS_HLM: 0.232					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	0.23	Rating **	M	Issue No.	60 (cont)
LM End	0.23	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_0876.jpg



Pipes visible on LS next to roadway.

Photo 2 of 2 : UCIP_FA_2015_0877.jpg



Pipes visible on LS next to roadway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.23	Rating **	M	Issue No.	61
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:16187					
DS_ID:23107					
EP_NO: N/A					
FS_HLM: 0.232					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 1 of 1 : UCIP_FA_2015_1405.jpg



Pipes visible on LS next to roadway.

LM Start	0.26	Rating **	N	Issue No.	2
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.784316 °	37.784316 °
				-121.306498 °	-121.306498 °
DWR ID	DWR_RD2107_01_s_2012_2				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA_2015_RD2107_329_2_20150910_00002.jpg



Tree stumps present on slope. They were left from prior vegetation removal for access and visibility.

LM Start	0.26	Rating **	M	Issue No.	19
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.784300 °	37.784300 °
				-121.306488 °	-121.306488 °
DWR ID	DWR_RD2107_01_f_2015_19				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 1 of 1 : FA_2015_RD2107_329_19_20151026_00011.jpg



View of the tracks on the waterside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.27	Rating **	M	Issue No.	62
LM End	0.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784194 °	37.784194 °
				-121.306353 °	-121.306353 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:16188 DS_ID:19055 EP_NO: 12101B FS_HLM: 0.27 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 4" electrical conduit through the levee 2.5 feet below the crown. Distribution panel on a 5-foot by 6-foot concrete pad on the WS shoulder (Permit No 12101B, 1979). FS Date: 05/21/2013					

Photo 1 of 1 : UCIP_FA_2015_1406.jpg



5X5 concrete pad with exposed electrical conduit on WS shoulder.

LM Start	0.32	Rating **	M	Issue No.	20
LM End	0.32	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.783649 °	37.783649 °
				-121.305710 °	-121.305710 °
DWR ID	DWR_RD2107_01_f_2015_20				
Action/Comments					
Building Inspector Comments: Building in the floodway may impede flood flows.					

Photo 1 of 1 : FA_2015_RD2107_329_20_20151026_00012.jpg



View of the building in the floodway.

LM Start	0.41	Rating **	M	Issue No.	54
LM End	0.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.782737 °	37.782737 °
				-121.304426 °	-121.304426 °
DWR ID	DWR_RD2107_01_s_2012_54				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Large elderberry on water side slope.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.68	Rating **	M	Issue No.	63
LM End	0.68	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779486 °	37.779486 °
				-121.301961 °	-121.301961 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:13684
 DS_ID:19036
 EP_NO: N/A
 FS_HLM: 0.684
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Wooden walkway to pump on platform is in disrepair and may be a hazard.
 FIELD_STRUCT_DESC: 1 of 2: 14-inch pipe through the levee 17.0 feet below the crown. Pump on pile structure in the stream. Walkway to pump. Slide gate in 48-inch CMP riser on WS shoulder. 36-inch concrete standpipe at the landward toe. Service pole and circuit panel on landward toe. Originally included in O&M manual, 1964.
 FS Date: 05/21/2013

LM Start	0.68	Rating **	M	Issue No.	63 (cont)
LM End	0.68	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_0457.jpg



Butterfly valve on WS toe.

Photo 2 of 3 : UCIP_FA_2015_0458.jpg



Walkway to pump on pier at WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.68	Rating **	M	Issue No.	63 (cont)	
LM End	0.68	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.779486 °	37.779486 °	
				-121.301961 °	-121.301961 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:13684						
DS_ID:19036						
EP_NO: N/A						
FS_HLM: 0.684						
Repair Type: Non-Urgent						
Crossing Status: Found						

Photo 3 of 3 : UCIP_FA_2015_0459.jpg



Pier and 48-inch CMP riser on WS shoulder

LM Start	0.70	Rating **	M	Issue No.	64
LM End	0.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779209 °	37.779209 °
				-121.301973 °	-121.301973 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13883					
DS_ID:19039					
EP_NO: N/A					
FS_HLM: 0.704					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Slide gate missing actuator inside 55-inch CMP riser.					
FIELD_STRUCT_DESC: 14-inch pipe through the levee, 15.0 feet					
below the crown. Pipe likely runs from 36-inch concrete standpipe on					
LS to outlet on WS toe. Portion of the discharge line from the pump at					
Levee Mile 0.68. 55-inch CMP riser with slide gate on LS shoulder.					
Originally included in O&M manual, 1964.					
FS Date: 05/21/2013					

Photo 1 of 2 : UCIP_FA_2015_1148.jpg



36-inch concrete standpipe on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.70	Rating **	M	Issue No.	64 (cont)	
LM End	0.70	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.779209 °	37.779209 °	
				-121.301973 °	-121.301973 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:13883						
DS_ID:19039						
EP_NO: N/A						
FS_HLM: 0.704						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Slide gate missing actuator inside 55-inch CMP riser.						
FIELD_STRUCT_DESC: 14-inch pipe through the levee, 15.0 feet						
below the crown. Pipe likely runs from 36-inch concrete standpipe on						
LS to outlet on WS toe. Portion of the discharge line from the pump at						
Levee Mile 0.68. 55-inch CMP riser with slide gate on LS shoulder.						
Originally included in O&M manual, 1964.						
FS Date: 05/21/2013						

Photo 2 of 2 : UCIP_FA_2015_1149.jpg



55-inch CMP riser with slide gate (no handle) on LS shoulder. 14-inch and 12-inch pipe visible on LS toe.

LM Start	1.14	Rating **	M	Issue No.	21
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.775324 °	37.775324 °
				-121.307685 °	-121.307685 °
DWR ID	DWR_RD2107_01_f_2015_21				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Trim up limbs blocking visibility.					

Photo 1 of 1 : FA_2015_RD2107_329_21_20151026_00013.jpg



View of the overgrown tree on the waterside levee slope obstructing visibility.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	---	--	---	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	1.23	Rating **	M	Issue No.	17
LM End	1.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.774123 °	37.774123 °
				-121.307189 °	-121.307189 °
DWR ID	DWR_RD2107_01_s_2012_17				
Action/Comments					
Landscaping					
Inspector Comments: Landscaping and fence present on levee slope.					

Photo 1 of 1 : FA_2015_RD2107_329_17_20150910_00004.jpg



View of landscape planting on landside levee slope and a 3-ft yard fence at the levee toe.

LM Start	1.45	Rating **	M	Issue No.	65
LM End	1.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.771939 °	37.771939 °
				-121.305063 °	-121.305063 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13667 DS_ID:19031 EP_NO: 12790 FS_HLM: 1.463 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Verify with electricity provider that electric service is overhead and not through the levee. FIELD_STRUCT_DESC: 1 of 3: Possible underground electrical conduit through the levee at unknown depth. Overhead power line on site likely installed instead of underground. (Permit No. 12790, 1981). FS Date: 05/21/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	1.47	Rating **	M	Issue No.	66
LM End	1.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.771735 °	37.771735 °
				-121.304847 °	-121.304847 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:15179
 DS_ID:23106
 EP_NO: N/A
 FS_HLM: 1.482
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Pipe open on WS toe at the pump on pier. Pipe abandoned and should be done so properly.
 FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee 2.5 feet below the crown. Pump on pile structure in the stream.
 Walkway to the pump.
 FS Date: 05/21/2013

LM Start	1.47	Rating **	M	Issue No.	66 (cont)
LM End	1.47	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_0660.jpg



Pipe open at pump on platform on WS.

Photo 2 of 3 : UCIP_FA_2015_0661.jpg



Pipe visible under metal walkway on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	1.47	Rating **	M	Issue No.	66 (cont)
LM End	1.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.771735 °	37.771735 °
				-121.304847 °	-121.304847 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:15179					
DS_ID:23106					
EP_NO: N/A					
FS_HLM: 1.482					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_0662.jpg



Metal pier on WS slope.

LM Start	1.47	Rating **	M	Issue No.	67
LM End	1.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.771735 °	37.771735 °
				-121.304847 °	-121.304847 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13650					
DS_ID:19040					
EP_NO: N/A					
FS_HLM: 1.482					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No pump. Appears abandoned. Large hole under pipe on WS slope from animal activity.					
FIELD_STRUCT_DESC: 1 of 2: 18-inch PVC irrigation pipe through the levee 2.5 feet below the crown. Pump on pile structure in the stream.					
Walkway to the pump. Originally included O&M manual, 1964.					
FS Date: 05/21/2013					

Photo 1 of 3 : UCIP_FA_2015_0171.jpg



Large hole under pipe on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	1.47	Rating **	M	Issue No.	67 (cont)
LM End	1.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.771735 °	37.771735 °
				-121.304847 °	-121.304847 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:13650
 DS_ID:19040
 EP_NO: N/A
 FS_HLM: 1.482
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: No pump. Appears abandoned. Large hole under pipe on WS slope from animal activity.
 FIELD_STRUCT_DESC: 1 of 2: 18-inch PVC irrigation pipe through the levee 2.5 feet below the crown. Pump on pile structure in the stream.
 Walkway to the pump. Originally included O&M manual, 1964.
 FS Date: 05/21/2013

LM Start	1.47	Rating **	M	Issue No.	67 (cont)
LM End	1.47	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_0172.jpg



Pumping plant on metal pier on WS toe.

Photo 3 of 3 : UCIP_FA_2015_0495.jpg



Pumping plant on metal pier on WS toe. Pipe visible on right under walkway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	2.00	Rating **	A	Issue No.	22
LM End	2.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.765571 °	37.765571 °
				-121.309613 °	-121.309613 °
DWR ID	DWR_RD2107_01_f_2015_22				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2015_RD2107_329_22_20151026_00014.jpg



View of the acceptable vegetation on the waterside levee slope.

LM Start	2.19	Rating **	A/W	Issue No.	11
LM End	2.19	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.762868 °	37.762868 °
				-121.309708 °	-121.309708 °
DWR ID	DWR_RD2107_01_s_2012_11				
Action/Comments					
Pipe					
Inspector Comments: Irrigation intake pipe through levee freeboard.					

Photo 1 of 1 : FA_2015_RD2107_329_11_20150910_00003.jpg



View of the pipe location; alignment through levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 2107 Mossdale Island

Waterway			Bank	Unit Miles
Unit No. 02 Paradise Cut			Right	1.82
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/06/2015 - 05/06/2015		10/15/2015 - 10/15/2015	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Robert Brown		Robert Brown	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.27	Rating **	M	Issue No.	11
LM End	0.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.762613 °	37.762613 °
				-121.313480 °	-121.313480 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13637					
DS_ID:19057					
EP_NO: N/A					
FS_HLM: 0.263					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe filled in with soil around outlet and not visible on					
LS. Appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: 16-inch steel storm drain pipe 16-feet below					
the crown with slide gate on WS toe. Originally included in O&M					
manual, 1964.					
FS Date: 05/21/2013					

LM Start	0.27	Rating **	M	Issue No.	11 (cont)
LM End	0.27	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2015_0354.jpg



Slide gate visible on WS toe.

Photo 2 of 2 : UCIP_FA_2015_0355.jpg



Slide gate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.42	Rating **	A	Issue No.	8
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.764171 °	37.764171 °
				-121.315377 °	-121.315377 °
DWR ID	DWR_RD2107_02_f_2015_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2015_RD2107_330_8_20151026_00005.jpg



View of the acceptable vegetation control on the waterside levee slope.

LM Start	0.51	Rating **	M	Issue No.	4
LM End	0.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.764780 °	37.764780 °
				-121.316717 °	-121.316717 °
DWR ID	DWR_RD2107_02_s_2012_4				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry bush on waterside.					

Photo 1 of 1 : FA_2015_RD2107_330_4_20150910_00001.jpg



Elderberry located on waterside slope.

LM Start	0.54	Rating **	M	Issue No.	9
LM End	0.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.764838 °	37.764838 °
				-121.317318 °	-121.317318 °
DWR ID	DWR_RD2107_02_f_2015_9				
Action/Comments					
Repair slope instability.					
Inspector Comments: Add appropriate fill and compact the slope.					

Photo 1 of 1 : FA_2015_RD2107_330_9_20151026_00006.jpg



View of the vertical cut on the landside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.54	Rating **	M	Issue No.	12
LM End	0.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.764832 °	37.764832 °
				-121.317405 °	-121.317405 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:13636
 DS_ID:19058
 EP_NO: 13161
 FS_HLM: 0.5426
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Some erosion along pipe alignment on WS slope.
 FIELD_STRUCT_DESC: 10-inch steel storm drain pipe through the levee 5-feet below the crown. Pump located on 36-inch concrete standpipe at LS toe. A PVC pipe runs parallel to waterward toe to train tracks. Air relief valve on waterward shoulder (Permit No. 13161, 1981).
 FS Date: 05/21/2013

LM Start	0.54	Rating **	M	Issue No.	12 (cont)
LM End	0.54	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_0351.jpg



JP and meter on LS shoulder.

Photo 2 of 3 : UCIP_FA_2015_0352.jpg



Pipe at outlet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	0.54	Rating **	M	Issue No.	12 (cont)
LM End	0.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.764832 °	37.764832 °
				-121.317405 °	-121.317405 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:13636					
DS_ID:19058					
EP_NO: 13161					
FS_HLM: 0.5426					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_0353.jpg



Erosion along pipe alignment on WS slope.

LM Start	0.75	Rating **	A	Issue No.	10
LM End	0.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.766621 °	37.766621 °
				-121.320149 °	-121.320149 °
DWR ID	DWR_RD2107_02_f_2015_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2015_RD2107_330_10_20151026_00007.jpg



View of the acceptable vegetation control on the landside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	1.50	Rating **	U	Issue No.	13
LM End	1.50	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.774130 °	37.774130 °
				-121.329896 °	-121.329896 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:43097
 DS_ID:19056
 EP_NO: 2966
 FS_HLM: 1.525
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: Headwall around pipe at LS toe is failing and should be shored up. Flap gate propped open and should be returned to normal function.
 FIELD_STRUCT_DESC: 24-inch steel drain pipe through the levee 14 feet below the crown. Flap gate installed on the waterward end of the pipe and two standard reinforced concrete cutoff walls were placed around the pipe in line with the levee shoulders (Permit No. 2966, 1958).
 FS Date: 05/22/2013

LM Start	1.50	Rating **	U	Issue No.	13 (cont)
LM End	1.50	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_0173.jpg



Headwall failing at drainage ditch on LS toe.

Photo 2 of 3 : UCIP_FA_2015_0174.jpg



Pipes visible under foliage on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	10/15/2015 10/15/2015	Maksim Khashchuk

LM Start	1.50	Rating **	U	Issue No.	13 (cont)
LM End	1.50	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.774130 °	37.774130 °
				-121.329896 °	-121.329896 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43097					
DS_ID:19056					
EP_NO: 2966					
FS_HLM: 1.525					
Repair Type: Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_0175.jpg



Pipe visible on WS toe with Flap gate open.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---